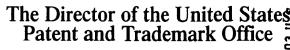
ARTIFACT SHEET

artifact	tifact number below. Artifact number is application number + type code (see list below) + sequential letter (A, B, C). The first folder for an artifact type receives the letter A, the second B, etc es: 59123456PA, 59123456PB, 59123456ZA, 59123456ZB
Indicate individu	e quantity of a single type of artifact received but not scanned. Create all artifact folder/box and artifact number for each Artifact Type.
	CD(s) containing: computer program listing Doc Code: Computer pages of specification and/or sequence listing and/or table Doc Code: Artifact Content unspecified or combined Doc Code: Artifact Artifact Type Code: S content unspecified or combined Artifact Type Code: U
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	Microfilm(s) Doc Code: Artifact Type Code: F
	Video tape(s) Doc Code: Artifact Type Code: V
	Model(s) Doc Code: Artifact Type Code: M
	Bound Document(s) Doc Code: Artifact Type Code: B
	Confidential Information Disclosure Statement or Other Documents marked Proprietary, Trade Secrets, Subject to Protective Order, Material Submitted under MPEP 724.02, etc. Doc Code: Artifact Artifact Type Code X
	Other, description: W.S. Priority Document Doc Code: Artifact Artifact Type Code: Z

The United States of America



Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extensions.

Director of the United States Patent and Trademark Office

Pandra L Montan

United States Patent [19]

Iwasaki

Patent Number:

6,145,023

[45] Date of Patent: *Nov. 7, 2000

[54]	INFORMATION STORAGE AND INFORMATION PROCESSING SYSTEM UTILIZING STATE-DESIGNATING MEMBER PROVIDED ON SUPPORTING CARD SURFACE WHICH PRODUCES WRITE-PERMITTING OF WRITE PROPERTY.
	PERMITTING OR WRITE-INHIBITING SIGNAL

[75]	Inventor:	Hiroshi Iwasaki, Yokohama, Japan	Hiroshi Iwasaki, Yokohama,	
(70)		, 	'	

[73] Assignee: Kabushiki Kaisha Toshiba, Kawasaki,

[*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C.

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H		Filed:	Jan. 26, 199

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[30] Foreign Application Priority Data

[51] Int. Cl.⁷ G06F 13/12; G11B 23/03

361/684; 361/737; 455/41; 360/133

361/737; 235/492; 455/41; 360/133; 710/13,

[56] References Cited

U.S. PATENT DOCUMENTS

	O.S. 17	TENT DOCUMENTS
4,264,917	4/1981	Ugon
4,703,420	10/1987	Ugon
4,837,628	6/1989	Irwin
4,860,127	8/1989	Sasaki
4,860,142	8/1989	Takahashi et al
4,882,702	11/1989	DiGiesi 360/133
4,916,662	4/1990	Struger et al
4,943,464		WIZUIA 365/52
4,980,856	7/1990	Gloton et al
	12/1990	Ueno
5,018,017	5/1991	Sasaki et al
5,036,429	7/1991	Kaneda et al 356/209

5,184,282 2/1993 Kaneda et al. 365/18 5,210,671 5/1993 Blackston 360/13 5,226,006 7/1993 Wang et al. 365/189.0 5,272,374 12/1993 Kodai et al. 257/67 5,293,236 3/1994 Adachi et al. 348/23 5,297,029 3/1994 Nakai et al. 365/238.3 5,299,089 3/1994 Lwee 371/10.2 5,343,319 8/1994 Moore 359/152	5,210,671 5,226,006 5,272,374 5,293,236 5,297,029 5,297,148 5,299,089	5/1993 7/1993 12/1993 3/1994 3/1994 3/1994 3/1994	Mehrotra et al. 36 Kaneda et al. 36 Kaneda et al. 36 Blackston 36 Wang et al. 365/ Kodai et al. 25 Adachi et al. 34 Nakai et al. 365/ Harari et al. 37 Lwee 36	65/18: 61/39: 60/13: 189.01 67/679: 18/231 1238.5
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(List continued on next page.)

FOREIGN PATENT DOCUMENTS

0 214 478 0 588 517 A1 0 708 429 A1 43 22 666 A1	3/1987 3/1994 4/1996	European Pat. Off European Pat. Off European Pat. Off
64-55691 4-16396	1/1994 3/1990 1/1992	Germany . Japan . Japan .
818554 2 208 029	8/1959 2/1989	United Kingdom . United Kingdom

OTHER PUBLICATIONS

European Patent Office Publication, Patent Abstracts of Japan, Publication No. 63137387, dated Jun. 9, 1988.

Primary Examiner-Meng-Ai T. An Assistant Examiner-Rehana Perveen Attorney, Agent, or Firm-Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

ABSTRACT

In a small and thin memory module for sharing data among electronic devices such as information processing apparatuses, a write prohibit state can be visually recognized. A conductive seal is attached to a predetermined position on a support member, thereby setting the memory module in the write prohibit state. The conductive seal visually indicates the write prohibit state. When the memory module is mounted in a connector section of a card-shaped holder, connector pins are electrically connected to each other via the conductive seal. Thus, a write prohibit mechanism is realized at low cost.

36 Claims, 4 Drawing Sheets

